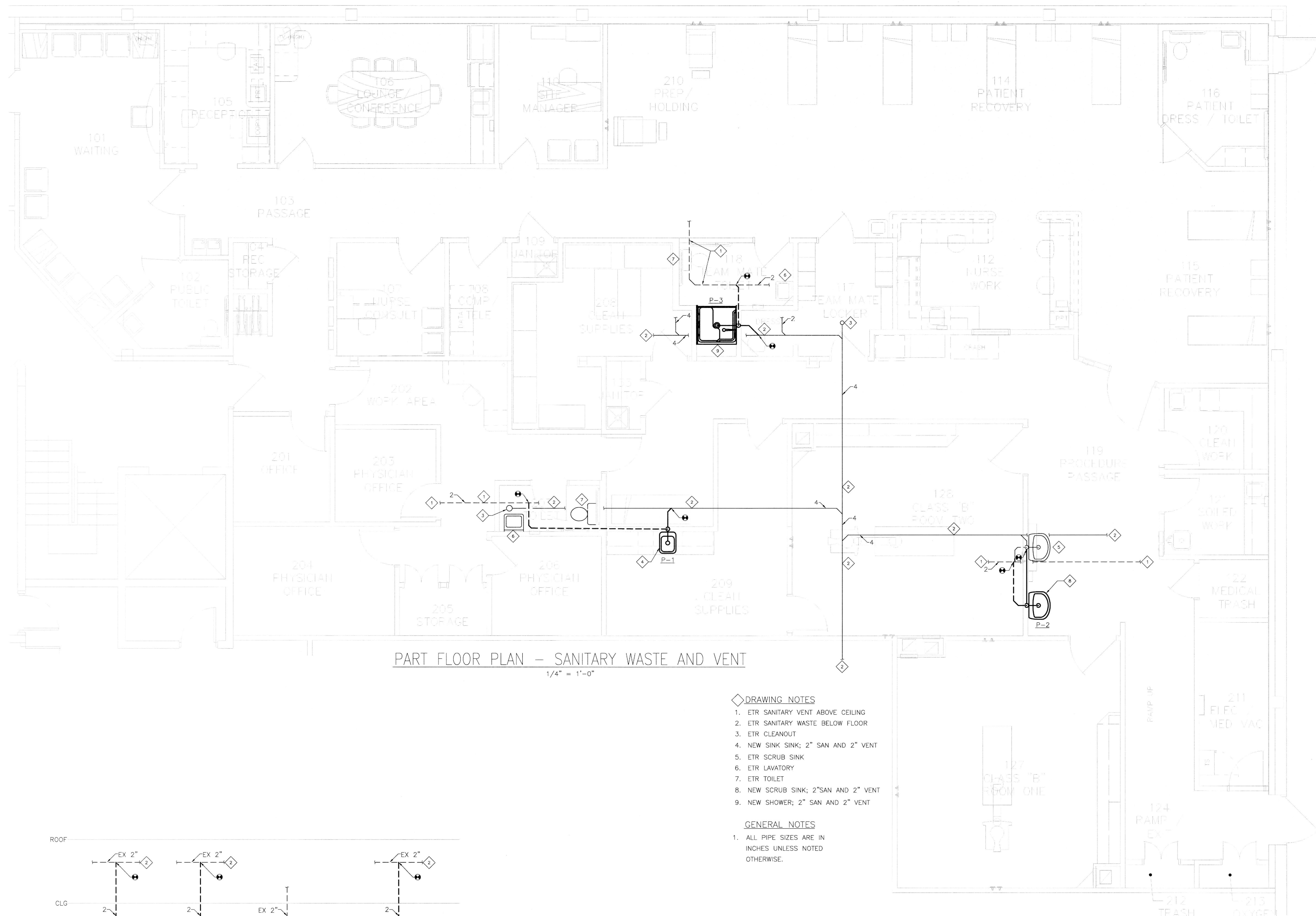


PLUMBING SPECIFICATIONS

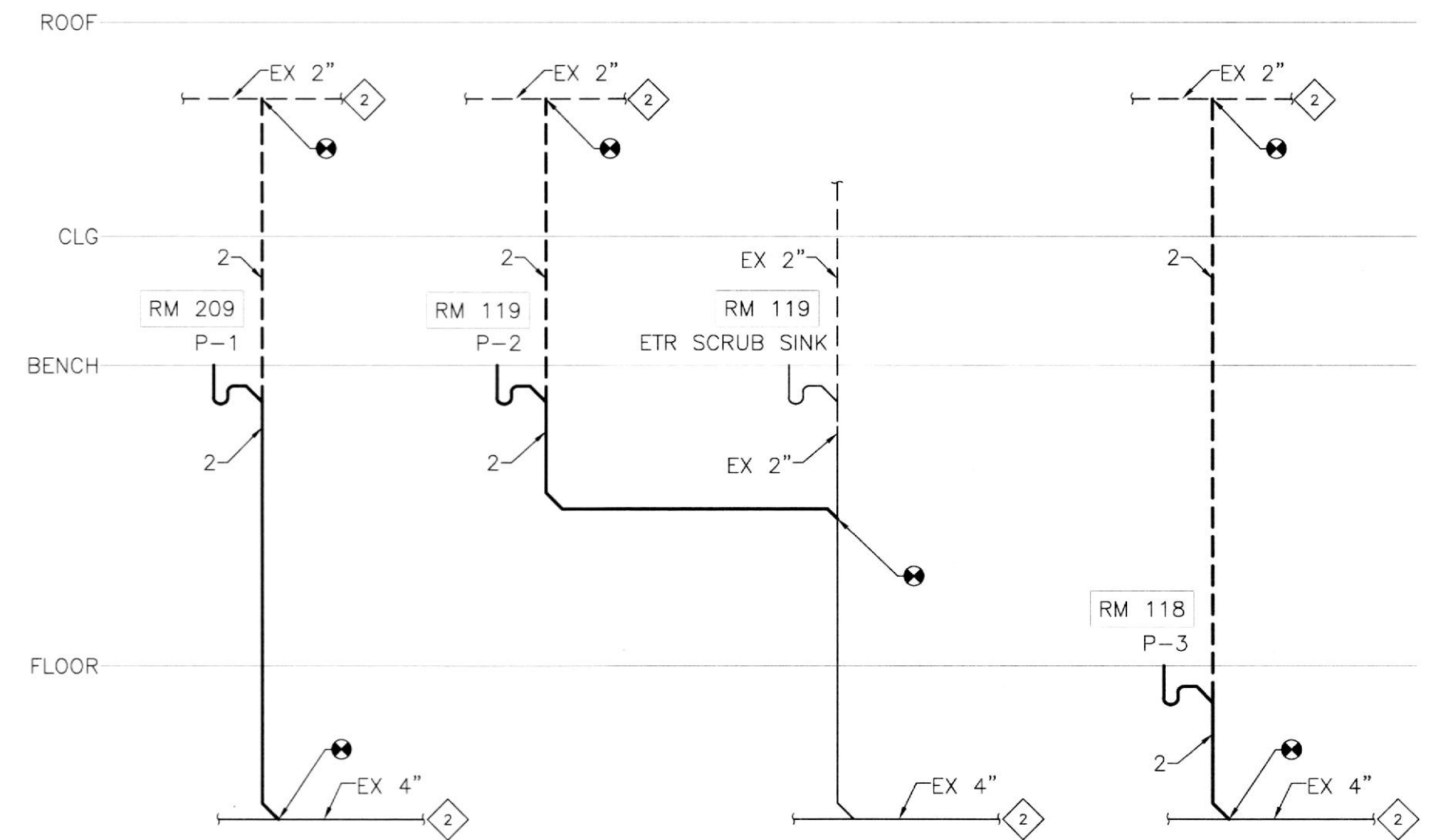
- GENERAL**
- ALL WORK SHALL CONFORM WITH ALL STATE AND LOCAL CODES, RULES AND REGULATIONS.
 - CONTRACTOR SHALL SECURE AND PAY FOR ANY PERMITS. ALL OTHER FEES AND TAXES SHALL NOT BE INCLUDED IN CONTRACT.
 - FURNISH AND INSTALL ALL REQUIRED MATERIALS, EQUIPMENT AND CONTRACTORS' SERVICES NECESSARY FOR COMPLETE INSTALLATION OF PLUMBING WORK; INCLUDING IN GENERAL, THE FOLLOWING:
 - A. GENERAL PROVISIONS FOR PLUMBING WORK
 - B. MATERIALS
 - C. PLUMBING FIXTURES
 - THESE DRAWINGS ARE DIAGRAMMATIC. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS OF THE BUILDING AND EXACT LOCATION OF ALL FIXTURES AND EQUIPMENT.
 - MAKE NO CHANGES WITHOUT THE WRITTEN PERMISSION FROM THE ARCHITECT.
 - ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND BEST PRODUCTS OF REPUTABLE MANUFACTURERS AND SHALL BE THOSE INDICATED ON THE DRAWINGS.
 - THIS CONTRACTOR SHALL GUARANTEE ALL MATERIALS, LABOR AND EQUIPMENT FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE. PAY FOR ANY REPAIRS OR REPLACEMENTS CAUSED BY DEFECTIVE WORKMANSHIP OR FAULTY MATERIALS AS CONSTRUED HEREIN WITHIN THE PERIOD COVERED BY THE GUARANTEE.
 - PROTECTION OF EQUIPMENT: ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS WHILE BEING INSTALLED AND BEFORE ACCEPTANCE BY THE OWNER, MUST BE PROTECTED SO THAT NO USE OF SAME CAN BE DONE BY WORKMEN OR OTHERS ON THE PREMISES. ALL MATERIAL AND EQUIPMENT MUST BE CLEANED AND IN NEW CONDITION AT ACCEPTANCE OF WORK. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR THE CONDITIONS OF MATERIALS AND EQUIPMENT UNTIL ACCEPTANCE BY THE OWNER.
 - SCAFFOLDING, RIGGING AND HOISTING: UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING, AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS FURNISHED, AND REMOVAL OF SAME FROM PREMISES WHEN NO LONGER REQUIRED.
 - CONTRACTOR SHALL ARRANGE FOR REQUIRED CHASES, SLOTS AND OPENINGS. CONTRACTOR IS LIABLE FOR CUTTING OR PATCHING MADE NECESSARY BY HIS FAILURE TO MAKE PROPER ARRANGEMENTS IN THIS RESPECT.
 - CONTRACTOR ASSUMES RESPONSIBILITY FOR PROPER ARRANGEMENT OF PIPES, ETC., TO CONNECT APPROVED EQUIPMENT IN A PROPER AND APPROVED MANNER. FOLLOW EQUIPMENT MANUFACTURER'S DETAILED INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY THE ARCHITECT BEFORE PROCEEDING. NO EQUIPMENT INSTALLATION OR CONNECTIONS SHALL BE MADE IN A MANNER THAT VOIDS THE MANUFACTURER'S WARRANTY.
 - INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER, USING ONLY WORKMEN THOROUGHLY QUALIFIED IN THE TRADE OF DUTIES THEY ARE TO PERFORM. ROUGH WORK WILL BE REJECTED.
 - UNLESS OTHERWISE REQUIRED BY TRADE CUSTOM OR SPECIFIED UNDER ANOTHER SECTION OF THE SPECIFICATIONS, CUTTING AND PATCHING SHALL BE DONE BY THE APPROPRIATE TRADE, BUT CONTRACTOR SHALL FURNISH SKETCHES SHOWING THE LOCATIONS AND SIZES OF ALL OPENINGS, CHASES, ETC. REQUIRED.
 - THE CONTRACTOR SHALL FURNISH AND LOCATE ALL SLEEVES AND INSERTS REQUIRED BEFORE THE FLOORS AND WALLS ARE BUILT, OR SHALL BE RESPONSIBLE FOR THE COST OF CUTTING, DRILLING AND PATCHING REQUIRED FOR PIPES WHERE SLEEVES OR INSERTS WERE NOT INSTALLED, OR WHERE INCORRECTLY LOCATED.
 - NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE ARCHITECT, AND ALL SUCH CUTTING SHALL BE DONE IN A MANNER DIRECTED BY HIM.
 - ALL SYSTEMS SHALL BE TESTED AND SHALL OPERATE SATISFACTORILY AS DESIGNED AND INTENDED. CONTRACTOR
- SHALL COMPLETELY CHLORINATE WATER SYSTEM AND LET STAND FOR 8 HOURS PRIOR TO FLUSHING.
 - EACH ITEM OF EQUIPMENT SHALL BE MOUNTED AND CONNECTED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR SHALL MAKE AN ON-SITE INSPECTION TO DETERMINE FULLY THE EXISTING CONDITIONS, PRIOR TO PROCEEDING WITH THE LAYOUT, PURCHASE OF MATERIALS AND INSTALLATION OF THIS WORK.
 - FOR ALL SIZES OF WASTE, VENT, HOT WATER AND COLD WATER PIPING TO FIXTURES AND EQUIPMENT, SEE SANITARY WASTE AND WATER DIAGRAMS.
 - ALL SANITARY WASTE PIPING 3" AND SMALLER SHALL BE SLOPED AT 1/4" PER FOOT, UNLESS OTHERWISE NOTED.
 - ALL SLOPES SHALL BE CHECKED AND CONFIRMED BEFORE ANY PIPING IS INSTALLED TO INSURE PROPER SLOPES WILL BE MAINTAINED.
 - MAKE PROPER WASTE, VENT, HOT AND COLD WATER CONNECTIONS TO ALL FIXTURES, AND EQUIPMENT, EVEN THOUGH ALL BRANCH MAINS, ELBOWS AND CONNECTIONS ARE NOT SHOWN.
 - ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID ANY INTERFERENCE.
 - ALL PIPE PENETRATIONS BELOW SINKS MUST BE SEALED.
 - CONTRACTOR SHALL PROVIDE ADDITIONAL WATER LINE DROPS IN WALL WHEN HORIZONTAL RUN IN WALL CONFLICTS WITH VENT PIPE IN WALL.
 - HOT, HOT, TEMPERED AND HOT WATER RE-CIRCULATING PIPE
 - ALL WATER PIPING SHALL BE TYPE "M" HARD TEMPER SEAMLESS COPPER WITH 95/5 SOLDER.
 - ALL VALVES SHALL BE 125 PSI, BRASS, RISING STEM, GATE VALVES.
- SANITARY WASTE AND VENT PIPING**
- ALL SANITARY AND VENT PIPING ABOVE GRADE SHALL BE NO-HUB, CAST IRON PIPE WITH STAINLESS STEEL BANDS.
 - ALL BELOW GRADE DRAINAGE PIPING SHALL BE NO HUB CAST IRON PIPE WITH STAINLESS STEEL BANDS AS MANUFACTURED BY "HUSKY" OR APPROVED EQUAL, WITH FOUR BAND MINIMUM.
- INSULATION**
- ALL COLD AND HOT WATER PIPING SHALL BE INSULATED IN ACCORDANCE WITH THE IPC AND THE IECC. ALL PIPING SHALL BE INSTALLED ON THE INSIDE OF THE BUILDING. INSULATION ENVELOPE MINIMUM PIPING INSULATION SHALL BE 3-1/2 LB. DENSITY, JOHNS MANVILLE FLAME SAFE AP-T.
- FIRE PROTECTION**
- CONTRACTOR SHALL PROVIDE NEW SPRINKLER SYSTEM FOR BUILDING.
 - CONTRACTOR SHALL DESIGN AND INSTALL NEW SPRINKLER SYSTEM, FOR ENTIRE BUILDING. ALL WORK SHALL BE IN ACCORDANCE WITH THE IFC, NFPA 13, 14 AND 24 AND ALL STATE AND LOCAL CODES.
 - SPRINKLER SYSTEM DESIGN SHALL BE COORDINATED WITH THE ARCHITECTURAL LAYOUT OF THE SPACE
 - WORK INCLUDED: COMPLETE AUTOMATIC SPRINKLER SYSTEMS INCLUDING, BUT NOT LIMITED TO THE FOLLOWING AS REQUIRED:
 - A. INTERIOR SYSTEMS INCLUDING PIPING, ACCESSORIES, FITTINGS, SPRINKLERS, HANGERS, SUPPORTS, SLEEVES, VALVES.
 - B. CUTTING AND PATCHING IN CONNECTION WITH THE WORK.
 - C. TESTING, CLEANING, ADJUSTING AND PLACING IN OPERATION ALL SYSTEMS AND EQUIPMENT SPECIFIED.
 - SPRINKLER HEADS AND PIPING SHALL MATCH EXISTING BUILDING STANDARDS.
 - IN GENERAL SPRINKLER HEADS SHALL BE INSTALLED IN CENTER OF NEW CEILING TILES AS INDICATED ON THE ARCHITECTURAL REFLECTED CEILING PLAN.
 - CONTRACTOR SHALL PROVIDE ALL HYDRAULIC AND OTHER CALCULATIONS ALONG WITH LAYOUT DRAWINGS FOR APPROVAL AND PERMITTING BY THE LOCAL AUTHORITIES.



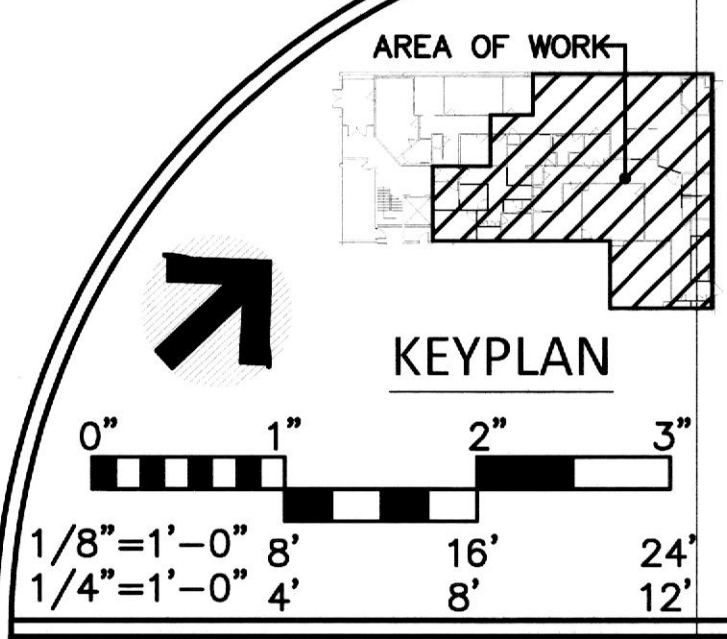
PART FLOOR PLAN - SANITARY WASTE AND VENT
1/4" = 1'-0"

- DRAWING NOTES**
- ETR SANITARY VENT ABOVE CEILING
 - ETR SANITARY WASTE BELOW FLOOR
 - ETR CLEANOUT
 - NEW SINK SINK; 2" SAN AND 2" VENT
 - ETR SCRUB SINK
 - ETR LAVATORY
 - ETR TOILET
 - NEW SCRUB SINK; 2" SAN AND 2" VENT
 - NEW SHOWER; 2" SAN AND 2" VENT

- GENERAL NOTES**
- ALL PIPE SIZES ARE IN INCHES UNLESS NOTED OTHERWISE.



SANITARY WASTE AND VENT RISER DIAGRAM
1/4" = 1'-0"



SANITARY WASTE AND VENT PIPING

| REVISIONS | | DATE | DESCRIPTION |
|-----------|----------|------------|-------------|
| REV# | DATE | PERMIT SET | |
| - | 10/20/17 | PERMIT SET | |

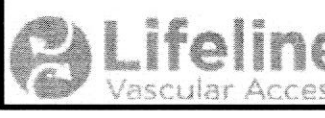
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| DRAWING NO. | P-103.00 |
| SHEET # | OF 6 |
| DATE | 10/20/17 |
| DRAWN BY | JLM |
| APP NUMBER | 00000 |
| 11241 | |

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BUILDING PERMIT



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